



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Walden 629  
# 17.04  
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GROUP 3600

In re Application of : Paper No. 6  
WADE W. SMITH : Art Unit: 3629  
Serial No: 10/055,164 : Examiner: Igor N. Borissov  
Filed: October 29, 2001 : Docket No: WMS-15  
For: WATER MANAGEMENT SYSTEM

Hon. Commissioner of Patents  
and Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

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ALEXANDRIA, VA 22313-1450 ON January 20, 2004

Sean L. Hoffmiller

Sir:

AMENDMENT

Responsive to the Office Action dated December 9, 2003,  
applicant would like to make the following

REMARKS

Longini discloses a system for calculating energy use by  
measuring flow volume with a flow meter.

Proffitt discloses a method for determining the composition  
and flow rate of a multicomponent, multiphase fluid containing gas.

Proffitt uses temperature sensors on either side of a test  
apparatus, pressure sensors on either side of the test apparatus  
and flow meters on either side of the test apparatus.

The examiner also takes official notice of the well known  
thermodynamic principle that flow is directly related to the square  
root of pressure change.

The invention claimed in Claim 1 does not use a flow meter as  
does Longini and Proffitt to determine flow.